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1 **The partial-order tree: a new structure for indexing on complex attributes in object-oriented databases**
Goczyla, K.;
EUROMICRO 97. 'New Frontiers of Information Technology'., Proceedings of the 23rd EUROMICRO Conference , 1-4 Sep 1997
Page(s): 47 -54

[Abstract] [PDF Full-Text (596 KB)] **IEEE CNF**

2 **Path signatures: a way to speed up recursion in relational databases**
Teuhola, J.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 8 Issue: 3 , Jun 1996
Page(s): 446 -454

[Abstract] [PDF Full-Text (804 KB)] **IEEE JRN**

3 **Efficient indexing structures for mining frequent patterns**
Bin Lan; Beng Chin Ooi; Kian-Lee Tan;
Data Engineering, 2002. Proceedings. 18th International Conference on , 2002
Page(s): 453 -462

[Abstract] [PDF Full-Text (352 KB)] **IEEE CNF**

4 **An efficient relational implementation f recursive relationships using path signatures**

Teuhola, J.;
Data Engineering, 1994. Proceedings. 10th International Conference , 14-18 Feb 1994
Page(s): 348 -355

[Abstract] [PDF Full-Text (596 KB)] **IEEE CNF**

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5 **Prefix trees: new efficient data structures for matching strings of different lengths**
Yazdani, N.; Min, P.S.;
Database Engineering & Applications, 2001 International Symposium on. , 2001
Page(s): 76 -85

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Goczyla, K.;
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1 **Indexing valid time databases via B$^+$-trees**
Nascimento, M.A.; Dunham, M.H.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 11 Issue: 6 , Nov/Dec 1999
Page(s): 929 -947

[Abstract] [PDF Full-Text (1188 KB)] **IEEE JRN**

2 **On support vector decision trees for database marketing**
Bennett, K.P.; Wu, S.; Auslender, L.;
Neural Networks, 1999. IJCNN '99. International Joint Conference on , Volume: 2 , Jul 1999
Page(s): 904 -909 vol.2

[Abstract] [PDF Full-Text (568 KB)] **IEEE CNF**

3 **Binary partition based algorithms for mining association rules**
Jianlin Feng; Yucai Feng;
Research and Technology Advances in Digital Libraries, 1998. ADL 98. Proceedings. IEEE International Forum on , 22-24 Apr 1998
Page(s): 30 -34

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4 **TSA-tree: a wavelet-based appr ach t impr ve the efficiency f multi-level surprise and trend queries n**

time-series data
Shahabi, C.; Tian, X.; Zhao, W.;
Scientific and Statistical Database Management, 2000. Proceedings. 12th International Conference on , 2000
Page(s): 55 -68

[Abstract] [PDF Full-Text (516 KB)] **IEEE CNF**

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5 **Efficient proximity search in multivariate data**
Kao, D.T.; Bergeron, R.D.; Sparr, T.M.;
Scientific and Statistical Database Management, 1998. Proceedings. Tenth International Conference on , 1-3 Jul 1998
Page(s): 145 -154

[Abstract] [PDF Full-Text (404 KB)] **IEEE CNF**

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6 **The partial-order tree: a new structure for indexing on complex attributes in object-oriented databases**
Goczyla, K.;
EUROMICRO 97. 'New Frontiers of Information Technology'., Proceedings of the 23rd EUROMICRO Conference , 1-4 Sep 1997
Page(s): 47 -54

[Abstract] [PDF Full-Text (596 KB)] **IEEE CNF**

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7 **Master-client R-trees: a new parallel R-tree architecture**
Schnitzer, B.; Leutenegger, S.T.;
Scientific and Statistical Database Management, 1999. Eleventh International Conference on , Aug 1999
Page(s): 68 -77

[Abstract] [PDF Full-Text (292 KB)] **IEEE CNF**

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8 **Segment pre-selection in decision-tree based speech synthesis systems**
Donovan, R.E.;
Acoustics, Speech, and Signal Processing, 2000. ICASSP '00. Proceedings. 2000 IEEE International Conference on , Volume: 2 , 2000
Page(s): II937 -II940 vol.2

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9 **Large v cabulary w rd rec gniti n based n tree-trellis search**

Jung-Kuei Chen; Soong, F.K.; Lin-Shan Lee;
Acoustics, Speech, and Signal Processing, 1994. ICASSP-94., 1994 IEEE International Conference on , Volume: ii , 19-22 Apr 1994
Page(s): II/137 -II/140 vol.2

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10 **GRG: knowledge discovery using information generalization, information reduction, and rule generation**
Ning Shan; Hamilton, H.J.; Cercone, N.;
Tools with Artificial Intelligence, 1995. Proceedings., Seventh International Conference on , 5-8 Nov 1995
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[Abstract] [PDF Full-Text (700 KB)] **IEEE CNF**

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11 **Transforming supervised classifiers for feature extraction**
Bursteinas, B.; Long, J.A.;
Tools with Artificial Intelligence, 2000. ICTAI 2000. Proceedings. 12th IEEE International Conference on , 2000
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[Abstract] [PDF Full-Text (840 KB)] **IEEE CNF**

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12 **Efficient searches for similar subsequences of different lengths in sequence databases**
Park, S.; Chu, W.W.; Yoon, J.; Hsu, C.;
Data Engineering, 2000. Proceedings. 16th International Conference on , 2000
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[Abstract] [PDF Full-Text (388 KB)] **IEEE CNF**

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13 **Speaker recognition using neural networks and conventional classifiers**
Farrell, K.R.; Mammone, R.J.; Assaleh, K.T.;
Speech and Audio Processing, IEEE Transactions on , Volume: 2 Issue: 1 , Jan 1994
Page(s): 194 -205

[Abstract] [PDF Full-Text (1104 KB)] **IEEE JRN**

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14 **Indexing images by trees f visual c ntent**
Schweitzer, H.;
Computer Vision, 1998. Sixth International Conference on , 4-7 Jan

1998
Page(s): 582 -587

[Abstract] [PDF Full-Text (756 KB)] IEEE CNF

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15 **Induction of rules subject to a quality constraint: probabilistic inductive learning**
Gur-Ali, O.; Wallace, W.A.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 5
Issue: 6 , Dec 1993
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16 **Parallel reduction of a chain query in distributed databases**
Yanchun Zhang; Orlowska, M.E.;
Computing and Information, 1992. Proceedings. ICCI '92., Fourth International Conference on , 28-30 May 1992
Page(s): 453 -456

[Abstract] [PDF Full-Text (284 KB)] **IEEE CNF**

17 **Incorporating acoustic-phonetic knowledge in hybrid TDNN/HMM frameworks**
Dugast, C.; Devillers, L.;
Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE International Conference on , Volume: 1 , 23-26 Mar 1992
Page(s): 421 -424 vol.1

[Abstract] [PDF Full-Text (308 KB)] **IEEE CNF**

18 **A team-oriented query language**
Jorng-Tzong Horng; Gwo-Dong Chen; Cheng-Yan Kao; Baw-Jhiune Liu;
Systems, Man, and Cybernetics, 1994. 'Humans, Information and Technology'., 1994 IEEE International Conference on , Volume: 2 , 2-5 Oct 1994
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[Abstract] [PDF Full-Text (522 KB)] **IEEE CNF**

19 **On multicasting in a c mmunicati n netw rk**

Makki, K.; Pissinou, N.; Frieder, O.;
Computer Communications and Networks, 1995. Proceedings., Fourth International Conference on , 20-23 Sep 1995
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[Abstract] [PDF Full-Text (688 KB)] **IEEE CNF**

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20 **Mining quantitative association rules under inequality constraints**
Charles Lo; Vincent Ng;
Knowledge and Data Engineering Exchange, 1999. (KDEX '99) Proceedings. 1999 Workshop on , 1999
Page(s): 53 -59

[Abstract] [PDF Full-Text (220 KB)] **IEEE CNF**

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21 **Optimization for queries with holistic functions**
Chiou, A.S.; Sieg, J.C.;
Database Systems for Advanced Applications, 2001. Proceedings. Seventh International Conference on , 2001
Page(s): 327 -334

[Abstract] [PDF Full-Text (564 KB)] **IEEE CNF**

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22 **Delay-optimal quorum consensus for distributed systems**
Ada Waichee Fu;
Parallel and Distributed Systems, IEEE Transactions on , Volume: 8 Issue: 1 , Jan 1997
Page(s): 59 -69

[Abstract] [PDF Full-Text (568 KB)] **IEEE JRN**

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23 **A dynamic interquery optimization method for achieving data sharing among concurrent queries**
Mikkilineni, K.; Su, S.;
Distributed Computing Systems in the 1990s, 1988. Proceedings., Workshop on the Future Trends of , 14-16 Sep 1988
Page(s): 477 -486

[Abstract] [PDF Full-Text (836 KB)] **IEEE CNF**

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24 **C ntent-based search and clustering f rem te sensing imagery**
Marchisio, G.B.; Cornelison, J.;
Geoscience and Remote Sensing Symposium, 1999. IGARSS '99

Proceedings. IEEE 1999 International , Volume: 1 , 1999
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25 **2D TSA-tree: a wavelet-based approach to improve the efficiency of multi-level spatial data mining**
Shahabi, C.; Seokkyung Chung; Safar, M.; Hajj, G.;
Scientific and Statistical Database Management, 2001. SSDBM 2001. Proceedings. Thirteenth International Conference on , 2001
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26 **An integrated approach to system design, reliability, and diagnosis**
Patterson-Hine, F.A.; Iverson, D.L.;
Digital Avionics Systems Conference, 1990. Proceedings., IEEE/AIAA/NASA 9th , 15-18 Oct 1990
Page(s): 480 -487

[Abstract] [PDF Full-Text (724 KB)] **IEEE CNF**

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27 **Decision tree learning on very large data sets**
Hall, L.O.; Chawla, N.; Bowyer, K.W.;
Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on , Volume: 3 , 11-14 Oct 1998
Page(s): 2579 -2584 vol.3

[Abstract] [PDF Full-Text (396 KB)] **IEEE CNF**

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28 **Voicing state determination of co-channel speech**
Benincasa, D.S.; Savic, M.I.;
Acoustics, Speech, and Signal Processing, 1998. ICASSP '98. Proceedings of the 1998 IEEE International Conference on , Volume: 2 , 12-15 May 1998
Page(s): 1021 -1024 vol.2

[Abstract] [PDF Full-Text (328 KB)] **IEEE CNF**

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29 **H-BLOB: a hierarchical visual clustering meth d using implicit surfaces**
Sprenger, T.C.; Brunella, R.; Gross, M.H.;
Visualization 2000. Proceedings , 2000
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1 B-trees: bearing fruits of all kinds 100%
Beng Chin Ooi , Kian-Lee Tan
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
Volume 24 Issue 2

Index structures are often used to support search operations in large databases. Many advanced database application domains such as spatial databases, multimedia databases, temporal databases, and object-oriented databases, call for index structures that are specially designed and tailored for the domains. Interestingly, in each of these domains, we find methods that are based on one distinct structure --- the B-tree. Invented some thirty years ago, the B-tree has been challenged repeatedly, but ...

2 Tree queries: a simple class of relational queries 100%
Nathan Goodman , Oded Shmueli
ACM Transactions on Database Systems (TODS) December 1982
Volume 7 Issue 4

One can partition the class of relational database schemas into tree schemas and cyclic schemas. (These are called acyclic hypergraphs and cyclic hypergraphs elsewhere in the literature.) This partition

has interesting implications in query processing, dependency theory, and graph theory. The tree/cyclic partitioning of database schemas originated with a similar partition of equijoin queries. Given an arbitrary equijoin query one can obtain an equivalent query that calculates the ...

3 Optimization techniques for queries with expensive methods 100%

Joseph M. Hellerstein
ACM Transactions on Database Systems (TODS) June 1998
Volume 23 Issue 2

Object-relational database management systems allow knowledgeable users to define new data types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

4 Implementation of logical query languages for databases 100%

Jeffrey D. Ullman
ACM Transactions on Database Systems (TODS) September 1985
Volume 10 Issue 3

We examine methods of implementing queries about relational databases in the case where these queries are expressed in first-order logic as a collection of Horn clauses. Because queries may be defined recursively, straightforward methods of query evaluation do not always work, and a variety of strategies have been proposed to handle subsets of recursive queries. We express such query evaluation techniques as “capture rules” on a graph representing clauses and predicates. One ess ...

5 Optimization of queries with user-defined predicates 100%

Surajit Chaudhuri , Kyuseok Shim
ACM Transactions on Database Systems (TODS) June 1999
Volume 24 Issue 2

Relational databases provide the ability to store user-defined functions and predicates which can be invoked in SQL queries. When evaluation of a user-defined predicate is relatively expensive, the traditional method of evaluating predicates as early as possible is no longer a sound heuristic. There are two previous approaches for optimizing such queries. However, neither is able to guarantee the optimal plan over the desired execution space. We present efficient techniques that are able to ...

6 Outerjoin simplification and reordering for query optimization 100%
César Galindo-Legaria , Arnon Rosenthal
ACM Transactions on Database Systems (TODS) March 1997
Volume 22 Issue 1

7 The generalized tree quorum protocol: an efficient approach for managing replicated data 100%
D. Agrawal , A. El Abbadi
ACM Transactions on Database Systems (TODS) December 1992
Volume 17 Issue 4

In this paper, we present a low-cost fault-tolerant protocol for managing replicated data. We impose a logical tree structure on the set of copies of an object and develop a protocol that uses the information available in the logical structure to reduce the communication requirements for read and write operations. The tree quorum protocol is a generalization of the static voting protocol with two degrees of freedom for choosing quorums. In general, this results in significantly lower commun ...

8 Avoiding Cartesian products for multiple joins 100%
Shinichi Morishita
Journal of the ACM (JACM) January 1997
Volume 44 Issue 1

Computing the natural join of a set of relations is an important operation in relational database systems. The ordering of joins determines to a large extent the computation time of the join. Since the number of possible orderings could be very large, query optimizers first reduce the search space by using various heuristics and then try to select an optimal ordering of joins. Avoiding Cartesian products is a common heuristic for reducing the search space, but it cannot guarantee optimal or ...

9 Open commit protocols tolerating commission failures 100%
Kurt Rothermel , Stefan Pappe
ACM Transactions on Database Systems (TODS) June 1993
Volume 18 Issue 2

To ensure atomicity of transactions in distributed systems so-called 2-phase commit (2PC) protocols have been proposed. The basic assumption of these protocols is that the processing nodes involved in transactions are “sane,” i.e., they only fail with omission failures, and nodes eventually recover from failures. Unfortunately, this assumption is not realistic for so-called Open Distributed Systems (ODSs), in which nodes may have totally different reliability characteristics. In ...

10 Depth first generation of long patterns 100%
Ramesh C. Agarwal , Charu C. Aggarwal , V. V. V. Prasad
Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining August 2000

11 Contributed articles: Towards long pattern generation in dense databases 100%
Charu C. Aggarwal
ACM SIGKDD Explorations Newsletter July 2001
Volume 3 Issue 1
This paper discusses the problem of long pattern generation in dense databases. In recent years, there has been an increase of interest in techniques for maximal pattern generation. We present a survey of this class of methods for long pattern generation which differ considerably from the level-wise approach of traditional methods. Many of these techniques are rooted in combinatorial tricks which can be applied only when the generation of frequent patterns is not forced to be level wise. We pres ...

12 Index structures for selective dissemination of information under the Boolean model 100%
Tak W. Yan , Héctor García-Molina
ACM Transactions on Database Systems (TODS) June 1994
Volume 19 Issue 2
The number, size, and user population of bibliographic and full-text document databases are rapidly growing. With a high document arrival rate, it becomes essential for users of such databases to have access to the very latest documents; yet the high document arrival rate also makes it difficult for users to keep themselves updated. It is desirable to allow users to submit profiles, i.e., queries that are constantly evaluated, so that they will be automatically informed of new additions tha ...

13 Functions in databases 100%
Marc H. Graham
ACM Transactions on Database Systems (TODS) March 1983
Volume 8 Issue 1
We discuss the objectives of including functional dependencies in the definition of a relational database. We find two distinct objectives. The appearance of a dependency in the definition of a database indicates that the states of the database are to encode a function. A method based on the chase of calculating the function encoded by a particular state is given and compared to methods utilizing derivations of the dependency. A test for deciding whether the states of a schema may encode a ...

14 The design of the E programming language 100%
Joel E. Richardson , Michael J. Carey , Daniel T. Schuh
ACM Transactions on Programming Languages and Systems (TOPLAS) July 1993
Volume 15 Issue 3

15 Syntactic Characterization of Tree Database Schemas 100%
Nathan Goodman , Oded Shmueli
Journal of the ACM (JACM) October 1983
Volume 30 Issue 4

16 Static analysis in datalog extensions 100%
Alon Y. Halevy , Inderpal Singh Mumick , Yehoshua Sagiv , Oded Shmueli
Journal of the ACM (JACM) September 2001
Volume 48 Issue 5
We consider the problems of containment, equivalence, satisfiability and query-reachability for datalog programs with negation. These problems are important for optimizing datalog programs. We show that both query-reachability and satisfiability are decidable for programs with stratified negation provided that negation is applied only to EDB predicates or that all EDB predicates are unary. In the latter case, we show that equivalence is also decidable. The algorithms we present can also be used ...

17 Efficient content-based indexing of large image databases 100%
Essam A. El-Kwae , Mansur R. Kabuka
ACM Transactions on Information Systems (TOIS) April 2000
Volume 18 Issue 2
Large image databases have emerged in various applications in recent years. A prime requisite of these databases is the means by which their contents can be indexed and retrieved. A multilevel signature file called the Two Signature Multi-level Signature File (2SMLSF) is introduced as an efficient access structure for large image databases. The 2SMLSF encodes image information into binary signatures and creates a tree structures can be efficiently searched ...

18 Computational problems related to the design of normal form relational schemas 100%
Catriel Beeri , Philip A. Bernstein
ACM Transactions on Database Systems (TODS) March 1979
Volume 4 Issue 1

Problems related to functional dependencies and the algorithmic design of relational schemas are examined. Specifically, the following results are presented: (1) a tree model of derivations of functional dependencies from other functional dependencies; (2) a linear-time algorithm to test if a functional dependency is in the closure of a set of functional dependencies; (3) a quadratic-time implementation of Bernstein's third normal form schema synthesis algorithm. Furthermore, it ...

19 The multicast policy and its relationship to replicated data placement 100%

Ouri Wolfson , Amir Milo
ACM Transactions on Database Systems (TODS) March 1991
Volume 16 Issue 1

In this paper we consider the communication complexity of maintaining the replicas of a logical data-item, in a database distributed over a computer network. We propose a new method, called the minimum spanning tree write, by which a processor in the network should multicast a write of a logical data-item, to all the processors that store replicas of the items. Then we show that the minimum spanning tree write is optimal from the communication cost point of view. We also demonstate that the ...

20 Using Semi-Joins to Solve Relational Queries 100%

Philip A. Bernstein , Dah-Ming W. Chiu
Journal of the ACM (JACM) January 1981
Volume 28 Issue 1

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3. Directory dilemma; *Jeff Symoens*; **InfoWorld**, San Mateo; Nov 17, 1997; Vol. 19, Iss. 46; pg. 1, 1 pgs
4. Evolution of Data Modeling for Databases; *Navathe, Shamkant B.*; **Association for Computing Machinery. Communications of the ACM**, New York; Sep 1992; Vol. 35, Iss. 9; pg. 112, 12 pgs

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From: Alam, Hosain
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Hosain
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Fr m: Thangavelu, Kandasamy
Sent: Wednesday, February 12, 2003 8:38 AM
T : Teska, Kevin; Thomson, William; Ingberg, Todd; Alam, Hosain; Vu, Kim
Subject: Classes to search

Hi Kevin, Bill, Todd and Hosain,

Attached is an amendment to an independent claim of an application that I am working on. It deals with organizing simulation test inputs and test data and is related to database organization. I am searching in the class 707 subclasses 1, 2, 100-102. The applicant claims that the supesets underlying the subsets is his novelty and merits the approval. I am not convinced. Can you please suggest to me if I should search any other 2 or 3 classes and subclasses? can you also recommend to me any other primaries who can give me some idea?

K. Thangavelu

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L20	20	((Simulation adj controller) and display) and monitor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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L21	5	(Simulation and (report adj generator) and control) and (results adj file)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L22	54	Simulation and (report adj generator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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L24	492	Simulation and (tree adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L25	13	(Simulation and (tree adj structure)) and (case adj scenario)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L26	233	Simulation and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L27	123	(Simulation and (case adj scenario$)) and (organiz$ or manag$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L28	2	((Simulation and (case adj scenario$)) and (organiz$ or manag$)) and ((case or sce	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L29	4	(Simulation and (case adj scenario$)) and ((organiz$ or manag$) adj (case$ or scer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L30	67649	Simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	25	Simulation and (tree adj like adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	22	(Simulation and (tree adj like adj structure)) and (case$ or scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	6,151,582.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	1	6,151,582.pn. and (input or simulator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	0	6,151,582.pn. and (simulation adj results)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	1	6,151,582.pn. and (output$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	84	reservoir adj simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	1	(reservoir adj simulation) and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

6	(reservoir adj simulation) and (oilfield)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
8357	(tree adj structure) or (tree adj like adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
505	(set or sets) same (superset or supersets)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
2	(((tree adj structure) or (tree adj like adj structure)) and ((set or sets) same (superse	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
24	((tree adj structure) or (tree adj like adj structure)) and ((set or sets) same (superse	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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EAST SEARCH 5/24/02

Results of search set L25:(Simulation and (tree adj structure)) and (case adj scenario)

Document)ocument II	Title	Source	Issue Date	Current OR
US 6321363 B1	Incremental simulation using previous simulation results and knowledge of changes		20011120	716/4
US 6295636 B1	RTL analysis for improved logic synthesis		20010925	716/18
US 6292931 B1	RTL analysis tool		20010918	716/18
US 6289498 B1	VDHL/Verilog expertise and gate synthesis automation system		20010911	716/18
US 6289491 B1	Netlist analysis tool by degree of conformity		20010911	716/5
US 6266064 B1	Coherent visibility sorting and occlusion cycle detection for dynamic aggregate geor		20010724	345/421
US 6263483 B1	Method of accessing the generic netlist created by synopsys design compilier		20010717	716/18
US 6215503 B1	Image generator and method for resolving non-binary cyclic occlusions with image (		20010410	345/629
US 6205572 B1	Buffering tree analysis in mapped design		20010320	716/5
US 6173435 B1	Internal clock handling in synthesis script		20010109	716/18
US 6151582 A	Decision support system for the management of an agile supply chain		20001121	705/8
US 5953707 A	Decision support system for the management of an agile supply chain		19990914	705/10
US 5515477 A	Neural networks		19960507	706/41

EAST SEARCH

12/5/01

L#	Hits	Search String	Databases
L1	2	6,106,561.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	2	6,018,497.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	67576	Simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	232	Simulation and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	8	Simulation and (case adj manager)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	2	(Simulation and (case adj scenario$)) and (scenario$ adj manager)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	1	(Simulation and (case adj scenario$)) and (scenario$ adj builder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	4	Simulation and (case adj builder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	9	Simulation and (results adj viewer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L14	2	(Simulation and ((3D or 3-D) adj viewer)) and (Simulation and (report adj generator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L15	16	Simulation and ((3D or 3-D) adj viewer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L16	10	Simulation and (run adj controller)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L17	132	Simulation adj controller	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L19	49	(Simulation adj controller) and display	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L20	20	((Simulation adj controller) and display) and monitor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	48	Simulation and (report adj generator) and control	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L21	5	(Simulation and (report adj generator) and control) and (results adj file)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L22	54	Simulation and (report adj generator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L23	46	(Simulation and (report adj generator)) and select	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L24	492	Simulation and (tree adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L25	13	(Simulation and (tree adj structure)) and (case adj scenario)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L26	233	Simulation and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L27	123	(Simulation and (case adj scenario$)) and (organiz$ or manag$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L28	2	((Simulation and (case adj scenario$)) and (organiz$ or manag$)) and ((case or sce	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L29	4	(Simulation and (case adj scenario$)) and ((organiz$ or manag$) adj (case$ or scer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L30	67649	Simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	25	Simulation and (tree adj like adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	22	(Simulation and (tree adj like adj structure)) and (case$ or scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	6,151,582.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	1	6,151,582.pn. and (input or simulator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	0	6,151,582.pn. and (simulation adj results)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	1	6,151,582.pn. and (output$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	84	reservoir adj simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	1	(reservoir adj simulation) and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

6	(reservoir adj simulation) and (oilfield)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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EAST SEARCH

12/5/01

Results of search set L25:(Simulation and (tree adj structure)) and (case adj scenario)

Document)ocument II	Title	Source	Issue Date	Current OR
US 6321363 B1	Incremental simulation using previous simulation results and knowledge of changes		20011120	716/4
US 6295636 B1	RTL analysis for improved logic synthesis		20010925	716/18
US 6292931 B1	RTL analysis tool		20010918	716/18
US 6289498 B1	VDHL/Verilog expertise and gate synthesis automation system		20010911	716/18
US 6289491 B1	Netlist analysis tool by degree of conformity		20010911	716/5
US 6266064 B1	Coherent visibility sorting and occlusion cycle detection for dynamic aggregate geor		20010724	345/421
US 6263483 B1	Method of accessing the generic netlist created by synopsys design compilier		20010717	716/18
US 6215503 B1	Image generator and method for resolving non-binary cyclic occlusions with image (		20010410	345/629
US 6205572 B1	Buffering tree analysis in mapped design		20010320	716/5
US 6173435 B1	Internal clock handling in synthesis script		20010109	716/18
US 6151582 A	Decision support system for the management of an agile supply chain		20001121	705/8
US 5953707 A	Decision support system for the management of an agile supply chain		19990914	705/10
US 5515477 A	Neural networks		19960507	706/41

CLASS 707 DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES

1 **DATABASE OR FILE ACCESSING** ←
2 . Access augmentation or optimizing ←
3 . Query processing (i.e., searching)
4 .. Query formulation, input preparation, or translation
5 .. Query augmenting and refining (e.g., inexact access)
6 .. Pattern matching access
7 . Sorting
8 . Concurrency (e.g., lock management in shared database)
9 . Privileged access
10 . Distributed or remote access
100 **DATABASE SCHEMA OR DATA STRUCTURE** ←
101 . Manipulating data structure (e.g., compression, compaction, compilation) ←
102 . Generating database or data structure (e.g., via user interface) ←
103 R . Object-oriented database structure
103 Y .. Object-oriented database structure processing
103 X .. Object-oriented database structure network
103 Z .. Object-oriented database structure reference
104.1 . Application of database or data structure (e.g., distributed, multimedia, image)
200 **FILE OR DATABASE MAINTENANCE**
201 . Coherency (e.g., same view to multiple users)
202 .. Recoverability
203 .. Version management
204 .. Archiving or backup
205 . File allocation
206 .. Garbage collection

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

EAST SEARCH

2/12/03

L#	Hits	Search String	Databases
L1	2	6,106,561.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	2	6,018,497.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	67576	Simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	232	Simulation and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	8	Simulation and (case adj manager)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	2	(Simulation and (case adj scenario$)) and (scenario$ adj manager)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	1	(Simulation and (case adj scenario$)) and (scenario$ adj builder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	4	Simulation and (case adj builder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	9	Simulation and (results adj viewer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L14	2	(Simulation and ((3D or 3-D) adj viewer)) and (Simulation and (report adj generator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L15	16	Simulation and ((3D or 3-D) adj viewer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L16	10	Simulation and (run adj controller)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L17	132	Simulation adj controller	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L19	49	(Simulation adj controller) and display	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L20	20	((Simulation adj controller) and display) and monitor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	48	Simulation and (report adj generator) and control	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L21	5	(Simulation and (report adj generator) and control) and (results adj file)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L22	54	Simulation and (report adj generator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L23	46	(Simulation and (report adj generator)) and select	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L24	492	Simulation and (tree adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L25	13	(Simulation and (tree adj structure)) and (case adj scenario)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L26	233	Simulation and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L27	123	(Simulation and (case adj scenario$)) and (organiz$ or manag$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L28	2	((Simulation and (case adj scenario$)) and (organiz$ or manag$)) and ((case or sce	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L29	4	(Simulation and (case adj scenario$)) and ((organiz$ or manag$) adj (case$ or scer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L30	67649	Simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	25	Simulation and (tree adj like adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	22	(Simulation and (tree adj like adj structure)) and (case$ or scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	6,151,582.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	1	6,151,582.pn. and (input or simulator)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	0	6,151,582.pn. and (simulation adj results)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	1	6,151,582.pn. and (output$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	84	reservoir adj simulation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	1	(reservoir adj simulation) and (case adj scenario$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	6	(reservoir adj simulation) and (oilfield)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	8357	(tree adj structure) or (tree adj like adj structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	505	(set or sets) same (superset or supersets)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	(((tree adj structure) or (tree adj like adj structure)) and ((set or sets) same (superse	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	24	((tree adj structure) or (tree adj like adj structure)) and ((set or sets) same (superse	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	81	("case builder" or editor) with keyword$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	15	1 and simulat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	46	(tree near2 structure) and (superset$1 with set$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	80	editor with keyword$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	771	345/853-854.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	136	5 and simulat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	32	6 and (tree near2 structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	0	7 and (superset$1 with set$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	31	7 and (superset$1 or set$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	7605	707/1-2.ccls. or 707/100-104.1.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	1009	10 and (tree near2 structure)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L12	25	11 and (superset$1 with set$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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EAST SEARCH 2/12/03

Results of s arch set L25:(Simulation and (tree adj structure)) and (case adj scenario)

Document)ocument II	Title	Source	Issue Date	Current OR
US 6321363 B1	Incremental simulation using previous simulation results and knowledge of changes to simulation model to a		20011120	716/4
US 6295636 B1	RTL analysis for improved logic synthesis		20010925	716/18
US 6292931 B1	RTL analysis tool		20010918	716/18
US 6289498 B1	VDHL/Verilog expertise and gate synthesis automation system		20010911	716/18
US 6289491 B1	Netlist analysis tool by degree of conformity		20010911	716/5
US 6266064 B1	Coherent visibility sorting and occlusion cycle detection for dynamic aggregate geometry		20010724	345/421
US 6263483 B1	Method of accessing the generic netlist created by synopsys design compilier		20010717	716/18
US 6215503 B1	Image generator and method for resolving non-binary cyclic occlusions with image compositing operations		20010410	345/629
US 6205572 B1	Buffering tree analysis in mapped design		20010320	716/5
US 6173435 B1	Internal clock handling in synthesis script		20010109	716/18
US 6151582 A	Decision support system for the management of an agile supply chain		20001121	705/8
US 5953707 A	Decision support system for the management of an agile supply chain		19990914	705/10
US 5515477 A	Neural networks		19960507	706/41

Results of s arch set L3:(tree near2 structure) and (superset$1 with set$1)

Document)ocument II	Title	Source	Issue Date	Current OR
US 20030018666 A1	Interoperable retrieval and deposit using annotated schema to interface between industrial document specifi		20030123	715/513
US 20030009253 A1	Remotely monitoring/diagnosing distributed components of a supervisory process control and manufacturing		20030109	700/108
US 20020190995 A1	Methods for improving visibility computations in 3D computer graphics		20021219	345/581
US 20020152294 A1	Apparatus and method for representing a class inheritance hierarchy		20021017	709/223
US 20020147703 A1	Transformation-based method for indexing high-dimensional data for nearest neighbour queries		20021010	707/2
US 20020138353 A1	Method and system for analysis of database records having fields with sets		20020926	705/26
US 20020133784 A1	Automatic design of VLIW processors		20020919	716/1
US 20020120914 A1	Automatic design of VLIW processors		20020829	716/17
US 20020065810 A1	File system translators and methods for implementing the same		20020530	707/2
US 20010055019 A1	Multiple processor visibility search system and method		20011227	345/441
US 6519592 B1	Method for using data from a data query cache		20030211	707/6
US 6496843 B1	Generic object for rapid integration of data changes		20021217	715/526
US 6493721 B1	Techniques for performing incremental data updates		20021210	707/104.1
US 6484161 B1	Method and system for performing online data queries in a distributed computer system		20021119	707/3
US 6457173 B1	Automatic design of VLIW instruction formats		20020924	717/149
US 6437796 B1	Multiple processor visibility search system and method		20020820	345/622
US 6421683 B1	Method and product for performing data transfer in a computer system		20020716	707/104.1
US 6408428 B1	Automated design of processor systems using feedback from internal measurements of candidate systems		20020618	716/17
US 6408294 B1	Common term optimization		20020618	707/5
US 6397228 B1	Data enhancement techniques		20020528	707/203
US 6393415 B1	Adaptive partitioning techniques in performing query requests and request routing		20020521	707/2
US 6385757 B1	Auto design of VLIW processors		20020507	716/1
US 6374241 B1	Data merging techniques		20020416	707/6
US 6324533 B1	Integrated database and data-mining system		20011127	707/3
US 6286002 B1	System and method for storing and searching buy and sell information of a marketplace		20010904	707/10
US 6266658 B1	Index tuner for given workload		20010724	707/2
US 6212528 B1	Case-based reasoning system and method for scoring cases in a case database		20010403	707/103R
US 6185559 B1	Method and apparatus for dynamically counting large itemsets		20010206	707/6
US 6173280 B1	Method and apparatus for generating weighted association rules		20010109	707/6
US 6138117 A	Method and system for mining long patterns from databases		20001024	707/6
US 6021411 A	Case-based reasoning system and method for scoring cases in a case database		20000201	707/103R
US 6003029 A	Automatic subspace clustering of high dimensional data for data mining applications		19991214	707/7
US 5983225 A	Parameterized lock management system and method for conditional conflict serializability of transactions		19991109	707/8
US 5960410 A	Device and method for object-based development of business applications software		19990928	705/21
US 5842197 A	Selecting a qualified data repository to create an index		19981124	707/2
US 5838965 A	Object oriented database management system		19981117	707/103R
US 5832475 A	Database system and method employing data cube operator for group-by operations		19981103	707/2

US 5826254 A	System for selectively browsing a large, distributed directory tree using authentication links	19981020	707/5
US 5742811 A	Method and system for mining generalized sequential patterns in a large database	19980421	707/6
US 5724573 A	Method and system for mining quantitative association rules in large relational tables	19980303	707/6
US 5647058 A	Method for high-dimensionality indexing in a multi-media database	19970708	707/1
US 5442784 A	Data management system for building a database with multi-dimensional search tree nodes	19950815	707/102
US 5404513 A	Method for building a database with multi-dimensional search tree nodes	19950404	707/102
US 5404512 A	Method for accessing a database with multi-dimensional search tree nodes	19950404	707/3
US 5257365 A	Database system with multi-dimensional summary search tree nodes for reducing the necessity to access re	19931026	707/100
US 4554625 A	Method for generating an optimized nested arrangement of constrained rectangles	19851119	700/171